

Monofunctional polyfluorooxetane oligomers, polymers, and copolymers are prepared by the cationic polymerization of fluorooxetane monomers with a monoalcohol. In addition to serving as an initiator, the monoalcohol can also serve as a solvent for the fluorooxetane or other monomers to produce oligomers, polymers, or copolymers having low cyclic content. Suitable comonomers generally include various cyclic ethers. The polyfluorooxetane oligomer, polymer, or copolymer having a single hydroxyl end group can be functionalized with a variety of compounds so as to yield a functional end group such as an acrylate, a methacrylate, an allylic, an amine, etc., with the functionalized oligomer or polymer being suitable for use in radiation curable or thermal curable coating compositions. These functionalized polymers can be copolymerized and cured to provide improvements in wetting and surface properties.